

FD511GM-GPON ONT Module



Overview

FD511GM is the GPON ONT devices. The FD511GM designed with one GPON port, one standard 10/100/1000 Base-TX Ethernet ports. It is aluminum alloy die casting shaping, and have good heat dissipation. The FD511GM ONT Module is small size module that is designed to work in CDATA outdoor platform. It also can be integrated with the third-party access network products as a functional module to provide the GPON service.

FD511GM is based on ZTE high-performance xPON access chip. The chip supposes three mode: GPON/EPON/P2P, comply with the GPON standard of g.984, g.983, have good xPON interoperability compatibility.

FD511GM has high reliability and QoS services, easy management, flexible expansion of the features. Product function and performance meet of the ITU - T, IEEE, international, industry standards and technical specification.

Features

- Fully compatible with ITU-T G.984.1/2/3/4
- Support downlink rate 2.448Gbit/s, uplink rate is 1.244Gbit/s
- Support 32 TCONT, 256 GEMPORT
- Support bidirectional FEC, supports the RS (255, 239) FEC decoding
- Support AES128 encryption and decryption functions with G.984 standard
- Support DBA bandwidth allocation
- Support PLOAM, embedded OMCI management with G.984 standard
- Support Dying-Gas detection and reporting
- Support rogue ONU detection
- Support GPON energy saving of G987.3 protocol
- Support Tag/Untag Ethernet frame of 802.1 and Q 802.3 standard, support QinQ
- Support CTC3.0, TR069 requirements of flexible tag processing
- Support for flexible flow classification, maximum 520 flow classification rules
- Support link error monitoring and loop monitoring
- Support a variety of multicast forwarding mode, support multicast replication

- Auto-negotiation and manual settings of Ethernet supporting rate, duplex mode
- UNI interface supports STP/RSTP protocol
- Provide QoS guarantees for different priority business through SLA restraining, Policing, queue management scheduling / congestion avoidance, discarding management mode
- Support flow control based on entrance , choose Pause frame reaction pressure to Packet loss for the business beyond
- Support HQoS function



Specification

| Item | Parameters | Specification |
|------------------------------|---------------------|---|
| Interface | PON Port | 1*GPON port, FSAN G.984.2 standard, Class B+ Downstream Data Rate: 2.488Gbps Upstream Data Rate: 1.244Gbps SC/UPC single mode fiber 28dB Link loss and 20KM distance with 1:128 |
| | Ethernet Port(LAN) | 1*GE Auto-negotiation RJ45 ports Full Duplex / Half-Duplex Auto-MDI/MDI-X Transmission Distance 100 Meter |
| | Power Supply Port | 2Pin Power Connector |
| Management | Network Management | Standard compliant OMCI interface as defined by ITU-T G.984.4 Support WEB management |
| | Management Function | Status monitor, Configuration management, Alarm management, Log management |
| Environmental Specifications | Shell | aluminum casing |
| | Power | 2Pin Power Connector Power consumption: <3W |
| | Dimensions / Weight | 150(L)×65(W)×25mm(H) <0.07kg |
| | Environment | Working Temperature: -10~65℃ Storage Temperature: -40~85℃ Working humidity: 10%~90%non-condensing Storage humidity: 10%~90% non-condensing |



Applications

- ◇ Internet Access
- ◇ VOD

- ◇ IPTV
- ◇ Camera monitor system

Ordering information

| Product Name | Product Model | Descriptions |
|--------------|---------------|---|
| Module ONT | FD511GM | One 10/100/100M Ethernet Ports, one GPON Port, 2Pin Power Connector, aluminum alloy die casting shaping |